

Quick Start Guide

ARROW M2M Access Kits

EK2420EX



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Document Number 600082-01A

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These devices comply with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) These devices must accept any interference received, including interference that may cause harmful operation.

Please refer to the full FCC and IC statements found in the appendix at the [end](#) of this quick start guide.

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Arrow M2M Access Kits

Thank you for evaluating the Arrow M2M Access Kit EK2420EX. This starter kit is brought to you through a partnership between Arrow Electronics, Inc., Exosite, and Synapse Wireless, Inc.

The purpose of this kit is to demonstrate machine to machine communications technologies, including a wireless, personal area network bridged to the internet and accessed using cloud services provided by Exosite. The wireless network components in the kit are provided by Synapse Wireless, running the SNAP OS platform.

The document you are now reading will guide you through the setup and usage of your kit. It will not, however, exhaustively explain the underlying technology of the Synapse SNAP architecture or that of Exosite. If you wish to explore the technology further, this document will point you to additional resources where you can:

- ▶ Extend your wireless network by purchasing additional Synapse components from Arrow Electronics and adding them to your Exosite cloud portal.
- ▶ Learn how to augment your wireless functionality by writing your own SNAPpy scripts.
- ▶ Learn how to extend your Exosite cloud portal's functionality by installing additional widgets or writing your own Lua scripts.
- ▶ Learn how to build your own appliances and integrate them into your network using RF engines from Synapse Wireless, and program them using the Synapse Portal software development environment.

The Arrow M2M kits are available in three models, one of which is described by this document:

- ▶ EK2410EX – This kit includes a Synapse SNAP Connect E10 and two Synapse SN171 SNAP Node ProtoBoards, all equipped with Synapse RF100 RF engines.
- ▶ EK0910EX – This kit includes a Synapse SNAP Connect E10 and two Synapse SN171 SNAP Node ProtoBoards, all equipped with Synapse RF300 RF engines.
- ▶ EX2420EX – This kit includes a Synapse SNAP Connect E10 and a Synapse SNAP Link RS485, both equipped with Synapse RF100 RF engines, plus a Temco PM-5E thermostat.

EX2420EX Kit Contents



Contents

- ▶ SNAP Connect E10 – provides a gateway between the SNAP wireless network and the internet.
- ▶ E10 Accessories – wall mounting brackets, power supply, USB cable with micro connector on the E10 side, ethernet cable, and antenna.
- ▶ SNAP Link RS485 – Provides the wireless link between a Modbus device, such as the included Temco unit, and the SNAP wireless network.
- ▶ SNAP Link Accessories – wall mounting brackets, power supply, USB cable with micro connector on the SNAP Link side, RS485 cable, and antenna.
- ▶ Temco PM-5E thermostat with power supply.
- ▶ Exosite cloud account.

Download Supporting Materials

As mentioned above, this Quick Start guide is designed to aid you in getting your kit quickly setup and working. If you wish to dive deeper into the technology, there is extensive documentation available on both the Synapse Wireless and Exosite websites.

Synapse RF100 RF Engine

Product Brief

<http://synapse-wireless.com/documents/products/Synapse-RF100xx-Engine-Product-Brief.pdf>

Data Sheet

<http://synapse-wireless.com/documents/products/Synapse-RF-Engine-RF100PC6-RF100PD6-Data-Sheet.pdf>

SNAP Connect E10

Product Brief

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Connect-E10-Product-Brief.pdf>

User Guide

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Connect-E10-User-Guide.pdf>

Technical Manual

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Connect-E10-Technical-Manual.pdf>

SNAP Link

Produce Brief

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Link-Serial-Adapter-Product-Brief.pdf>

Data Sheet

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Link-RS485-RS422-Serial-Adapter-Data-Sheet.pdf>

User Guide

<http://synapse-wireless.com/documents/products/Synapse-SNAP-Link-Serial-Adapter-User-Guide.pdf>

SNAP Software

We would like to welcome you to join the Synapse forum at this address:

<http://forums.synapse-wireless.com/>

You'll need to create a forum user name the first time in, and then log in using your user name on subsequent visits. From the forum you can download hardware and software manuals. In particular, if this is your first time experiencing SNAP, you might look at:

- ▶ SNAP Primer.pdf

- ▶ SNAPWhitePaper.pdf
- ▶ SNAP Reference Manual.pdf

Exosite Portal

<http://exosite.com/products/portals/documentation>

In addition to the above documentation, when you create your Exosite account and log in, you'll find an extensive set of links to Exosite documentation – everything from Exosite basics to developer APIs.

Unpack, Assemble, Power Up

When your M2M kit arrives, unpack it and lay the components out in a manner similar to the photo [above](#). There is some assembly required to wire the Temco unit to the SNAP Link RS484, after which you'll hook the SNAP Connect E10 up to the internet and apply power.

Special Note

Please note that while the Temco device monitors and reports the current temperature, it doesn't include a temperature sensor. Synapse will send you the required sensor free of charge (one per kit) when you contact customer service.

Please contact Synapse customer service by sending a message to: support@synapse-wireless.com, and stating you need the Temco temperature sensor for Arrow M2M Kit EK2420EX.

Without the sensor you can continue to assemble your kit, you just won't see accurate temperatures reported on the Exosite website until the temperature sensor is attached to your Temco device.

Setup the SNAP Link RS485 and Temco Unit

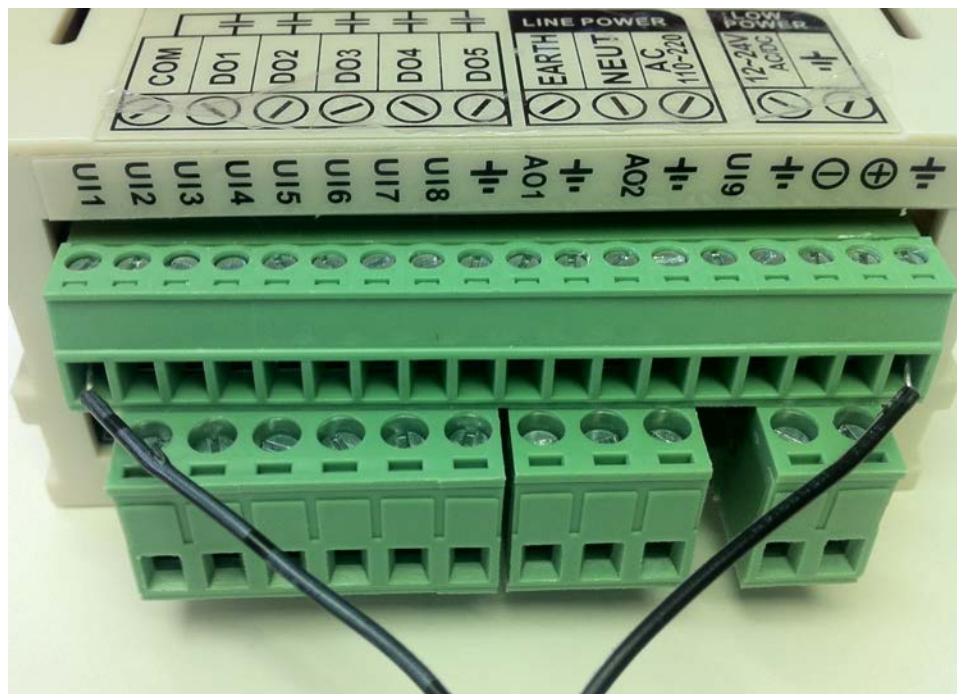
The SNAP Link RS485, shown on the right, is a Synapse Wireless device which essentially turns an RS485 or RS422 device into a member of the SNAP wireless network. It supports the Modbus protocol and is completely transparent to the attached device. In our case, the Modbus device we're attaching is the Temco, shown below, thermostat.

Temco Connections

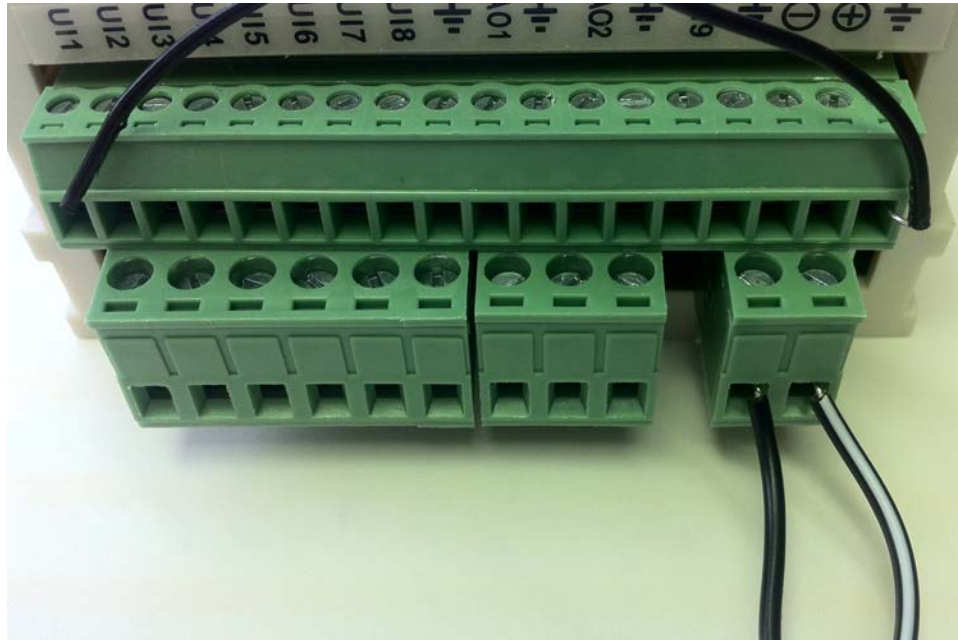
There are a number of connections you'll need to make using the terminal block on the back of the Temco unit. First you'll connect the temperature sensor. If you haven't already read the Special Note in the box above, please do so now before proceeding.



- ▶ First locate the temperature sensor, shown on the right.
- ▶ This will need to be attached to the Temco unit using terminals UI1 and ground. Since these are on opposite ends of the upper terminal block, you'll need to separate and spread the two wires of the temperature sensor, such as shown on the right. Also, if not already done, strip about a quarter inch of insulation from the wire ends.
- ▶ Using a small screw driver, open the terminal block (if they aren't already open) on pins UI1 (extreme left side) and ground (extreme right side) by turning the small screw to the left. Attach the temperature sensor by inserting the ends of the wire into the terminal block and then tightening the screw by turning it to the right. The completed assembly is shown below.



- ▶ The next step is to attach the power adapter. This is attached to the right most terminals on the lower terminal block. Since we're using an AC adapter, the order of the pins doesn't matter. The completed attachment should now resemble the following.



- ▶ Next connect the RS485 cable to the Temco unit. This will use the plus and minus terminals on the right side of the upper terminal block. In the picture below, we have connected a blue wire to the positive terminal and a grey wire to the negative one.



- ▶ This completes all the Temco unit connections. Go ahead and plug in its AC adapter. You should then see the current temperature displayed on its LCD display.

SNAP Link RS485 Connections

For the SNAP Link RS485 we just need to connect it to the Temco unit and apply power.

- ▶ Using the terminal block on the back of the SNAP Link, use the left most plus and minus terminals to connect the RS485 cable coming from your Temco unit. Ensure the positive terminals on both units are connected together, as well as the negative terminals. Using our same blue and grey wires from above, the completed SNAP Link terminal block should resemble the following.



- ▶ Attach one of the included antennas to the SNAP Link by screwing it into the antenna port.
- ▶ The final step is to power up the SNAP Link by plugging in its power adapter and then attaching the included USB cable between them. The full sized USB connector fits into the power adapter and the micro USB connector fits into the small connector on the back, right side of the SNAP Link, as shown above.

Attach the E10 to the Internet

The next step is to power up and attach your SNAP Connect E10 to the internet.

- ▶ Using the included ethernet cable, attach your E10 to a known active ethernet port that has a connection to the internet.
- ▶ Attach the included antenna to the E10's antenna port.
- ▶ Before applying power to your E10, ensure your SNAP Link and Temco unit have been connected as described above and both are powered up.
- ▶ Finally, power-up the E10 by plugging in its AC adapter and then stringing the included cable between the adapter (USB end) and E10 (micro USB end).



When you apply power to the E10 you should soon see both a green and amber LED, adjacent to and above the ethernet connector, illuminate. The amber LED will flash to indicate internet activity. If you do not see such activity, that's an indication the ethernet port to which you've attached your E10 is not currently active on the internet. If this should be the case, then please revisit that attachment and ensure the ethernet port you are using has an active internet connection.

Finally, the LED labelled B, next to the ethernet port, should steadily glow green. The LED labelled A, other the other end of the E10, will not illuminate.

Conclusion

At this point your local area, wireless network is complete and ready to talk with Exosite. Using the Exosite web portal, you'll soon be able to monitor the temperature sensed by the Temco unit, wirelessly transmitted by the SNAP Link RS485 to the SNAP Connect E10, and then sent across the internet to Exosite. You're now ready to proceed with the next section to setup your Exosite web portal.

Configure Exosite

The Exosite web portal is a general purpose tool providing a cloud-based platform for connecting devices and software applications. The Exosite portal (not to be confused with the Synapse Portal software development software) manages and interacts with connected devices. In our case, those connected devices are the SNAP Connect E10 and your SNAP Link RS485.

To form the connection between Exosite and your Synapse wireless devices, we need to first create an Exosite account (which comes with your M2M access kit) and then configure your devices.

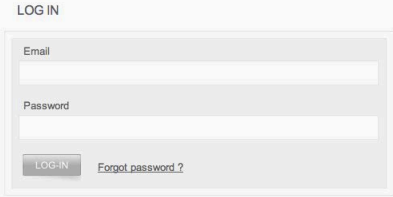
Create an Exosite Account

Follow these steps to create your Exosite account:

- ▶ To create your Exosite account, point your web browser to:

<https://arrowm2mkits.exosite.com>

- ▶ This takes you to the log in screen. To create your account, click the link “Don’t have an account? Choose one and sign up now”.
- ▶ This takes you to the pricing screen. Because a starter account is complimentary with your M2M kit, click “Sign Up Now” under M2M Starter.



LOG IN

Email

Password

LOG IN [Forgot password?](#)

Don't have an account? [Choose one and sign up now](#)

Already have an account from an Exosite-powered website? [Add it here](#)



PRICING

M2M STARTER	M2M DEVELOPER
Free	\$10 / Month
Get started with M2M	Add more resources
Public Sharing	Private Sharing
4 Devices	4 Resources
10 Email Alerts / day Add SMS	10 Email Alerts / day 2 Plus Add SMS
SIGN UP NOW	SIGN UP NOW

All plans have access to API. Discounted annual contracts are available; contact us for more information.

- ▶ This then presents an account sign up form. Fill out the form and then click “Create Account”.

ACCOUNT SIGN UP - M2M STARTER PLAN

Already have an account from an Exosite-powered website? [Add it here](#)

This information is used to connect you to our One Platform - we never sell or provide your information to others. See our [Privacy Policy](#) for more details.

ACCOUNT INFO * = required

Email *

Username *

Password *

Confirm Password *

CONTACT INFO

First Name *

Last Name *

Select a Timezone Timezone *

Select Country Country *

City State / Province Locality *

☐ Yes, I have read and I agree to the [ONLINE SERVICES AGREEMENT](#)

CREATE ACCOUNT

Connect your device to the cloud!

All plans have everything you need to begin connecting data from your devices and sensors:

- > Connect devices with the API
- > Visualize data using custom dashboards
- > Store complete historical data
- > Setup events and alerts

Upgrade your account at any time!

After creating your account, you can upgrade to a different plan at any time.

Need to tweak your account resources?

After creating your paid account, you can add individual resources like devices, users, or SMS messages when you need them. Only available for highest plan type.

- ▶ Exosite will then create your account and send you an email message with which to validate and complete account creation.
- ▶ Check your email and look for a message from arrowm2mkits.exosite.com. In the body of the message, click the link to activate your account. Keep a copy of this message as it contains your activation key, in case you might need it again in the future.
- ▶ After clicking the link above, your web browser will then land on a Welcome page. Click the login link, which takes you back to the main log in screen.
- ▶ Now log into your new account using the user name and password you entered when filling out the account form.

This completes the sign up process. You now have an active Exosite account and your next task will be to add your SNAP Connect E10 to the site.

Before proceeding however, you might want to explore the site a little and start to become familiar with the layout. In particular, notice on the home screen a series of “Useful Links” which link to the Exosite documentation.

Configure your Synapse Modules

The following steps will guide you through the process of adding your Synapse devices to your Exosite portal.

Add the SNAP Connect E10 to Exosite

- ▶ If you're not already logged into Exosite, do that now by pointing your web browser to the following address and then entering your email address and Exosite password.
<https://arrowm2mkits.exosite.com>
- ▶ From the Home screen, follow the instructions that appear in the Getting Started window. Click the "Click here to add your kit devices to your Portal" link.
- ▶ The next screen presents a popup list of all possible Synapse devices. It is important to correctly choose your device from this list. The only device you need to setup is the SNAP Connect E10, so choose "SNAP Connect E10 w/SNAP Link RS485" from the list and then click "Continue".

Device Setup

STEP: **SETUP TYPE** DEVICE SETUP CONFIRM

How do I know which device type to choose?
If you have a device that is not in the list of supported devices, choose the generic device type.

☒ I have a supported device.

- SNAP Node ProtoBoard - RF100 (2.4GHz)
- SNAP Connect E10
- ☒ SNAP Connect E10 w/SNAP Link RS485
- SNAP Node ProtoBoard - RF300 (900 MHz)

☐ I want to set up a generic device

☐ I want to bulk add devices

QUIT CONTINUE

- ▶ In the next screen, enter your E10's MAC address. This is printed on the bottom of your E10 and is 12 hex digits starting with 001C2C. Enter the address as byte pairs separated by colons, as shown below.

Note that the Exosite database contains a list of all known Synapse modules that have been included in the M2M access kits, so if you enter an invalid address Exosite will catch it and display an error.

Device Setup

STEP:


SETUP TYPE

DEVICE SETUP

CONFIRM

Where can I find my MAC Address (with colons)?

Your MAC Address (with colons) can be found in the position from the image below.



SNAP Connect E10 w/SNAP Link RS485

1. Enter Device MAC Address (with colons)

Note: Your MAC Address can be found on the sticker on the bottoms side of the E10 Gateway

2. What do you want to call this device?

QUIT CONTINUE

- ▶ Next give your device a name. In the example above, we've named it "SNAP Connect E10 with Temco".
- ▶ Click "Continue" and you should then see a summary screen such as shown below:

Device Setup

STEP:

SETUP TYPE

DEVICE SETUP

CONFIRM

What is my next step?

You will need to make sure your device connects to the Exosite platform within 24 hours. The device registration process should occur automatically once the device connects to the internet. If 24 hours pass without registering your device, you will need to redo this process.

Your SNAP Connect E10 w/SNAP Link RS485 device was successfully enabled with the CIK

92b7c37bcfe7d83323451916467bf344f69b757d

Your device will need to connect to the Exosite platform within 24 hours or your provision request will expire and you will need to re-enable your device from the Re-Enable Device block in your device pop-up. If you have any problems connecting, please contact your device provider at:

Company name: Synapse Wireless

Company email contact information: support+synapse@exosite.com

QUIT

- ▶ Click "Quit" to move on to the Devices page, which now looks like this:

Devices								+ Add Device
Name ▲	Alias	Type	Unique ID	Active	Last Reported Time *	Location	Data	Last Event *
SNAP Connect E10 with Temco		SNAP Connect E10 w/SNAP Link RS485	00:1c:2c:4c:70:1c	On	15:07:02 Sep 6, 12 America/Chicago	United States	6	Never

* All times in device's timezone.

Conclusion

This concludes the setup of your Exosite web portal. Your Synapse nodes should now all be assembled, powered up, and configured into Exosite. You're now ready to move on to the next section, where you'll learn how to monitor your wireless, SNAP network devices from the Exosite web portal.

Using Your Kit

At this point your Synapse devices should all be assembled and powered up. You should have created your Exosite web portal account and setup all your Synapse devices on it. If that's not the case, then please return to the applicable sections in this Quick Start Guide to accomplish those tasks before proceeding.

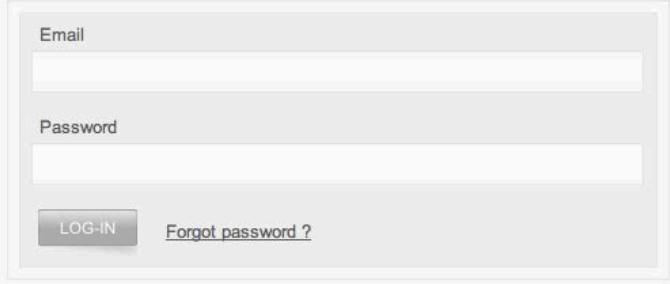
This section gives a brief overview of the Exosite web portal and walks you through some the things you can do to monitor and control your Synapse wireless devices from the internet. This section does not cover everything you can do with Exosite. For a greater level of detail, please refer to the online documentation readily available on the Exosite portal.

Navigating Exosite Overview

Log onto Exosite by directing your web browser to the following address.

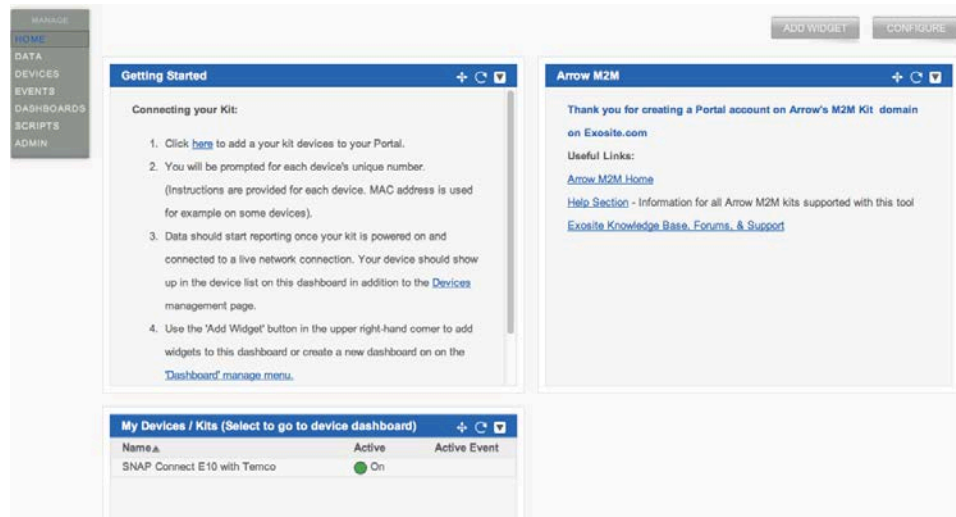
<https://arrowm2mkits.exosite.com>

When presented with the Log In screen, enter the email address and password you used when creating your account, then click the Log-In button.



The image shows a web browser window displaying the Exosite 'LOG IN' page. The page has a light gray background. At the top, the text 'LOG IN' is centered. Below it is a white rectangular box containing two input fields: 'Email' and 'Password'. The 'Email' field is on top, and the 'Password' field is below it. Below the 'Password' field is a gray button with the text 'LOG-IN' in white. To the right of the button is a link that says 'Forgot password ?'. Below the login box, there are two lines of text: 'Don't have an account? [Choose one and sign up now](#)' and 'Already have an account from an Exosite-powered website? [Add it here](#)'.

After logging in you'll be on the Exosite home page, which will resemble the following.



Please note the following elements:

- ▶ The navigation menu is in the grey box in the upper left and is visible on every page.
- ▶ The Getting Started window in the top left provides useful links to the Exosite online documentation.
- ▶ The My Devices window in the bottom left lists your Synapse devices. Since you've already set these up, you should see your SNAP Connect E10 in the list.
- ▶ If you click on that device, you'll then be taken to the Dashboard for that device.

Menu Items

Briefly, here is a list of the navigation menu items that appear in the top left grey box, visible on every page.

- ▶ **HOME** – Always takes you back to the home screen, displayed above.
- ▶ **DATA** – For all devices, lists all the data that is being collected, last reported value, and last reported collection time. This is described in further detail below.
- ▶ **DEVICES** – Displays all your devices, their active status, last reporting time, and last reporting event. This is the same screen you saw earlier when adding your Synapse devices to Exosite.
- ▶ **EVENTS** – Shows detailed information regarding events generated by any attached devices. Presently, there are no events generated by the Temco unit.
- ▶ **DASHBOARDS** – This page allow you to configure additional dashboards.
- ▶ **SCRIPTS** – Displays a list of Lua scripts which are running in your Exosite portal to interact with your Temco unit.
- ▶ **ADMIN** – This is a page to administer your Exosite account.

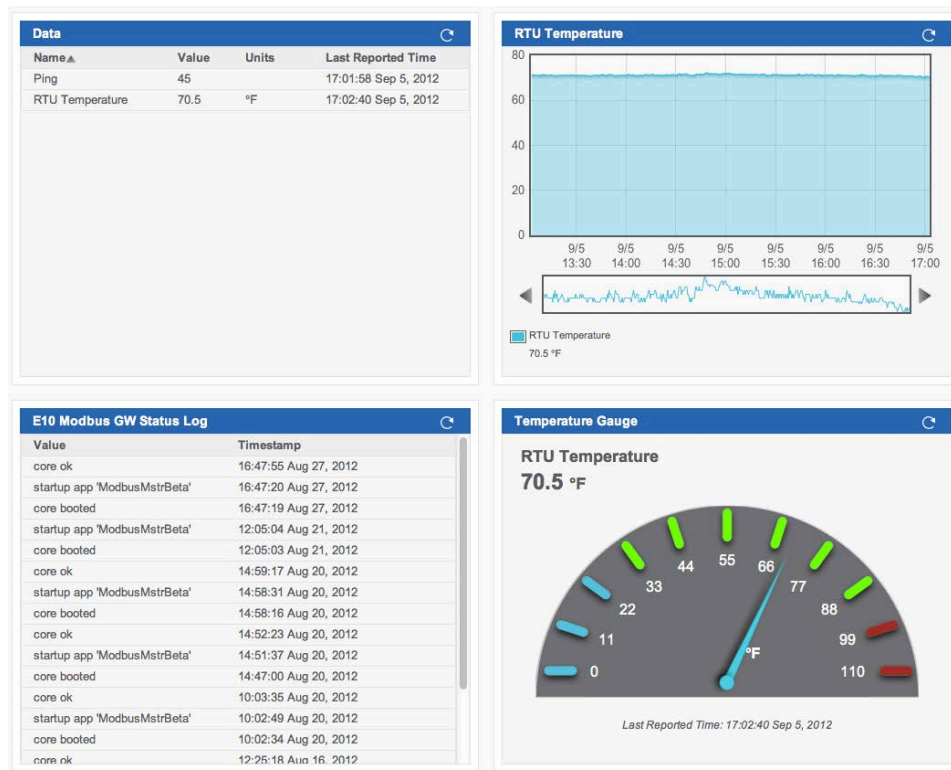
Reported Data

We'll next look at some of the interesting things you can do with Exosite.

- ▶ **RTU Temperature** – The Temco unit reports the current temperature to Exosite on an ongoing basis.
- ▶ **Ping** – From Exosite you can ping your SNAP Connect E10.
- ▶ **Status** – SNAP Connect E10 status is either active or not. Whenever the E10 is successfully communicating with Exosite, its status will be reported as active.

The Dashboard

Let's take a more detailed look at the dashboard. From the Home screen, click on the “SNAP Connect E10” entry in the “My Devices” window. This brings up the Dashboard page, which resembles this one:



Viewing the various windows, the one at the top left labelled “Data” is a list of the most recent data transmissions.


The one at the top right labelled “RTU Temperature” records the last 4 hours of temperature readings from the Temco unit.

Below that is the “Temperature Gauge”. This graphically displays the current temperature reported by the Temco unit.

Finally in the bottom left is the “E10 Modbus GW Status Log”. This is a list of the most recent Modbus commands that have traversed between the SNAP Link RS485 and the Temco unit.

Data Page

Let’s next look at the data page by clicking “DATA” in the grey menu box. While the Dashboard page gave us a visual representation of the data being reported by the SNAP network, this page displays the data in a raw form.

Data				+ Add Data
Name 	Alias	Last Value	Unit	Last Reported Time
Portal: Arrow M2M Kits				
Device: E10 Mod Bus Master				
Master Configuration	modmsrconfig	0		13:04:37 Jun 28, 12 America/Chicago
Modbus Command	modcommand	none		13:04:51 Jun 28, 12 America/Chicago
Modbus Response	modresponse	none		
Ping	ping	34		12:47:58 Aug 17, 12 America/Chicago
RTU Temperature	tempcotemp	51	°F	09:52:52 Aug 16, 12 America/Chicago
Status	status	core ok		12:25:18 Aug 16, 12 America/Chicago

You can view any of the data elements in greater detail by clicking on it. From the resulting Data Information display you can then view, amongst many things, a graph over time and a log of the last 200 records.

For example, clicking on “RTU Temperature” brings up the following screen:

Data Information

Data Update

Name: RTU Temperature
Current Value: 70.3
Units: °F
Format: float

Source Info

Device: E10 Mod Bus Master
Alias: tempcotemp
RID: 43630d4884a166fd3039ec273a1da7df80f15387
Calculation: NA

Retention

infinity

custom

Duration: hours
Count: data points

Share as Public Data

Make public: ☐
IMPORTANT: Data sources that are made public can be accessed by any user. By checking this box, you will be making the information displayed in this data source publicly accessible.
Tags:
Users will find public data by tag searches. Use commas to separate multiple tags.
Description:
Descriptions should be less than 140 characters.

UPDATE

Events

NameLast Seen

Delete Data Source

WARNING! If you delete this Data Source, all data will be lost.

To delete, first type "confirm" below.

DELETE

Data Graph

Write Data

Data value:

UPDATE

Data Log (last 200 records)

Export Data

Time	Value
17:07:45 Sep 5, 12 America/Chicago	70.3
17:07:12 Sep 5, 12 America/Chicago	70.3
17:06:41 Sep 5, 12 America/Chicago	70.3
17:06:11 Sep 5, 12 America/Chicago	70.3
17:05:40 Sep 5, 12 America/Chicago	70.3
17:04:42 Sep 5, 12 America/Chicago	70.1
17:04:09 Sep 5, 12 America/Chicago	70.1
17:03:38 Sep 5, 12 America/Chicago	70.3
17:03:11 Sep 5, 12 America/Chicago	70.3
17:02:40 Sep 5, 12 America/Chicago	70.5
17:01:40 Sep 5, 12 America/Chicago	70.3
17:01:12 Sep 5, 12 America/Chicago	70.5

CLOSE

When finished looking at this display, click the “Close” button in the bottom right corner to dismiss it and return to the Data page.

Devices Page

We visited the Devices page earlier when adding your Synapse devices to your Exosite portal. Your completed Devices page should resemble the following:

Devices + Add Device								
Name ▲	Alias	Type	Unique ID	Active	Last Reported Time *	Location	Data	Last Event *
SNAP Connect E10 with Temco		SNAP Connect E10 w/SNAP Link RS485	00:1c:2c:4c:70:1c	On	15:07:02 Sep 6, 12 America/Chicago	United States	6	Never

* All times in device's timezone.

Notice that now that the SNAP Connect E10 is active its device status is indicated as being “On”. Also notice the last time it sent a packet is reported as well as its last generated event.

To get a more detailed view of device status, click on the E10.

Device Information

Device Update

Name:

E10 Mod Bus Master

Alias:

Type:

SNAP E10 - Modbus Master Kit

MAC Address

00:1c:2c:4c:6f:c3

(with colons):

Status:

Activated

Timezone:

(GMT-06:00) Central Time (US & C

Location:

United States

Active Time:

5

minutes

CIK:

d3cfd51e0da38022c5ea66bdfdbd17264555f4fa

Use as Clone:

☐

Device Specific Limits (optional)

Inherit

Custom

Data:

☒

☐

(available: 44)

Events:

☒

☐

(available: 45)

Daily Emails:

☒

☐

Daily SMS:

☒

☐

UPDATE

Data List + Add Data

Name	Resource	Last Value
Ping	ping	34
Modbus Response	modresponse	none
RTU Temperature	tempcotemp	51
Modbus Command	modcommand	none
Master Configuration	modmsrconfig	{}
Status	status	core ok

This page displays detailed information about your E10 and allows you to change certain fields, such as the device name. On the right side of the page is the current state of all the data items.

Finally, at the bottom of the screen are a few additional controls to delete or re-enable a device.

Re-Enable Device

IMPORTANT! You can re-enable your device for provisioning if your device did not connect successfully with the cloud. Once re-enabled, your device will be given a new CIK.

To re-enable your device, first type "confirm" in the box below.

CONTINUE

Delete Device

WARNING! If you delete this Device, all data will be lost.

IMPORTANT! Once deleted, another user could activate this Device.

To delete, first type "confirm" below.

DELETE

CLOSE

Deleting a device permanently removes it from the Exosite portal. You likely will only need to use the re-enable command if you move a device from one Exosite account to another.

Finally, the "Close" button in the bottom right closes the window, returning you to the Devices Page.

Conclusion

This completes our brief tour of Exosite and how it interacts with your Synapse Wireless components. We have only scratched the surface of what Exosite can do. To learn more, explore the documentation linked to the Getting Started window on the Home page as well as the link to the Exosite support page in the upper right corner of every page. We hope you have enjoyed setting up and exercising your Arrow M2M Access Kit.

Regulatory Information And Certifications

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC certifications and regulatory information (USA only)

FCC PART 15 CLASS B

These devices comply with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) These devices must accept any interference received, including interference that may cause harmful operation.

RADIO FREQUENCY INTERFERENCE (RFI) (FCC 15.105)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/TV technician for help.

LABELING REQUIREMENTS (FCC 15.19)

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If the FCC ID for the module inside this product enclosure is not visible when installed inside another device, then the outside of the device into which this product is installed must also display a label referring to the enclosed module FCC ID.

Modifications (FCC 15.21)

Changes or modifications to this equipment not expressly approved by Synapse Wireless, Inc. may void the user's authority to operate this equipment.

Declaration of Conformity

(In accordance with FCC 96-208 and 95-19)

Manufacturer's Name: Synapse Wireless, Inc.
Headquarters: 500 Discovery Drive
Huntsville, AL 35806

Synapse Wireless, Inc. declares that the product:

<u>Product Name</u>	<u>Model Number</u>
SNAP Connect E10 (2.4GHz)	SLE10-001
SNAP Link RS485 (2.4GHz)	SL485K-001
RF100 w/SMA (2.4GHz)	RF100PD6

to which this declaration relates, meet the requirements specified by the Federal Communications Commission as detailed in the following specifications:

- ▶ Part 15, Subpart B, for Class B equipment
- ▶ FCC 96-208 as it applies to Class B personal computers and peripherals

The products listed above have been tested at an External Test Laboratory certified per FCC rules and has been found to meet the FCC, Part 15, Emission Limits. Documentation is on file and available from Synapse Wireless, Inc.

Industry Canada (IC) certifications

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.